

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: International Patent Application PCT/DE00/01796  
Filed June 5, 2000  
Title Circuit for Carrying out Secured Data Transmission, Especially in Ring Bus Systems  
Applicant Meyer-Gräfe et al.  
Attorney Docket (H) 01PH0389USP

Box PCT  
Commissioner for Patents  
Washington, DC 20231

Preliminary Amendment

Dear Sir or Madam:

Please amend the above-identified application as follows:

In the Claims:

The claims are represented as amended together with a version with markings to show changes.

1. A system for protected data transmission in ring-shaped bus systems, comprising
  - a control unit (1) which sends output data and checking signals for a control process to peripheral units (4, 7, 8, 9, 12),
  - a peripheral monitoring unit (4) which has a first transfer unit (5) for monitoring the transmitted data and a second transfer unit (6) for monitoring data to be read back into the control unit (1), and
  - at least one peripheral safety-related unit (9) for receiving or transmitting safety-related data, in which data are temporarily stored for output, which has a checking logic (11) for monitoring the temporarily stored data and an output unit (10) for outputting the temporarily stored data,